

Question	Answer
8.	It is given that $BC = ED = 4$ in. and $BD = EC = 3$ in. So by the def. of \cong , $\overline{BC} \cong \overline{ED}$, and $\overline{BD} \cong \overline{EC}$. $\overline{DC} \cong \overline{CD}$ by the Reflex. Prop. of \cong . Thus $\triangle BCD \cong \triangle EDC$ by SSS.
9.	It is given that $\overline{KJ} \cong \overline{LJ}$ and $\overline{GK} \cong \overline{GL}$. $\overline{GJ} \cong \overline{GJ}$ by the Reflex. Prop. of \cong . So $\triangle GJK \cong \triangle GJL$ by SSS.
10.	It is given that $\angle C$ and $\angle B$ are rt. \angle and $\overline{EC} \cong \overline{DB}$. $\angle C \cong \angle B$ by the Rt. $\angle \cong$ Thm. $\overline{CB} \cong \overline{BC}$ by the Reflex. Prop. of \cong . So $\triangle ECB \cong \triangle DBC$ by SAS.
11.	When $y = 3$, $NQ = NM = 3$, and $QP = MP = 4$. So by the def. of \cong , $\overline{NQ} \cong \overline{NM}$, and $\overline{QP} \cong \overline{MP}$. $m\angle M = m\angle Q = 90^\circ$, so $\angle M \cong \angle Q$ by the def. of \cong . Thus $\triangle MNP \cong \triangle QNP$ by SAS.
12.	When $t = 5$, $YZ = 24$, $ST = 20$, and $SU = 22$. So by the def. of \cong , $\overline{XY} \cong \overline{ST}$, $\overline{YZ} \cong \overline{TU}$, and $\overline{XZ} \cong \overline{SU}$. Thus $\triangle XYZ \cong \triangle STU$ by SSS.
13.	a. Given b. $\overline{DB} \cong \overline{CB}$ c. $\overline{AB} \perp \overline{DC}$ d. Def. of \perp e. Rt. $\angle \cong$ Thm. f. $\overline{AB} \cong \overline{AB}$ g. SAS Steps 2, 5, 6
14.	SAS
25.	Measure the lengths of the logs. If the lengths of the logs in 1 wing deflector match the lengths of the logs in the other wing deflector, the \triangle will be \cong by SAS or SSS.